

EXPLANATION

db
Diabase
Fresh or only slightly altered dark gray dioritic of diabasic composition and texture. Locally, inversely magnetized.

md
Metadiabase and metagabbro
Massive green or green and white rock. Forms tabular intrusive body that gently crosscuts Siano and Negaunee Formations.

an
Intrusive contact
Negaunee Iron-Formation
Mainly thinly laminated magnetite-chert or magnetite-siderite-chert rock, typically with some ironstone. Locally, thin interbeds of graywacke, especially in lower part of formation.

as
Siano slate
Mainly interbedded dark gray and green gray slates, graywacke, and impure quartzite; typically weathers brown or reddish. See, iron-bearing member; locally called the Goose Lake Iron Formation; shown in outcrop only. Magnetite, dark green, laminated, chloritic, sideritic slate; in places with cherty interbeds. Weathers to brown, greenish brown, or reddish brown. Approximate position of the iron-bearing member is indicated and shown by a line of short dashes. Estimated thickness of the member is 50 to 100 feet.

aq
Abitik quartzite
Light gray, reddish, and colorless quartzite; commonly weathers white, dark gray, or dark reddish gray.

aw
Abitik quartzite
Mainly dark gray and dark reddish gray slate with interbeds of impure dark-colored quartzite. Locally, brecciated, and impregnated with quartz and specular hematite. Locally conglomerate is abundant, especially near exposures of underlying gneiss.

u
Unconformity
Gneiss
Tonalitic and granodioritic rock, locally strongly sheared, sericitized, and impregnated with secondary quartz.

Outcrop or outcrop area
Geologic contact; dashed where inferred; queried where position highly uncertain
Inferred fault; queried where existence or position highly uncertain
Anticlinal axis, showing plunge
Synclinal axis, showing plunge
Strike and dip of bedding
Strike of vertical bedding
Horizontal bedding
Strike and dip of overturned bedding
Strike and dip of foliation
Strike of vertical foliation
Strike and dip of joint
Strike of vertical joint
Top direction in crossbedded quartzite
Top direction shown by ripple marks
Test pit, containing evidence of underlying ledge rock
Zone of coarse breccia in metadiabase

Magnetometer station
Value in gammas of vertical intensity above or below an arbitrary base. Zero datum is approximately 56,800 gammas as determined from magnetic base stations established by Bath, G. D., 1951, Magnetic base stations in the Lake Superior from districts: U. S. Bur. Mines Rept. Inv. 4804. Survey made with Jolander magnetometer

Magnetic contours
Labeled in thousands of gammas
Contour interval is 2,000 gammas between -10,000 and 10,000 gammas and 10,000 gammas above 10,000 gammas. Incomplete magnetic data—mainly in western part of map area—, isolated apparent abnormal values, and some negative values are not contoured. Magnetic depressions, some of which are assumed to close outside of the surveyed area, are shown by hachure contours
By mining geologists.

